Panasonic

Colour Television

TC–21S10M
TC–14S10M
TC–14S10A

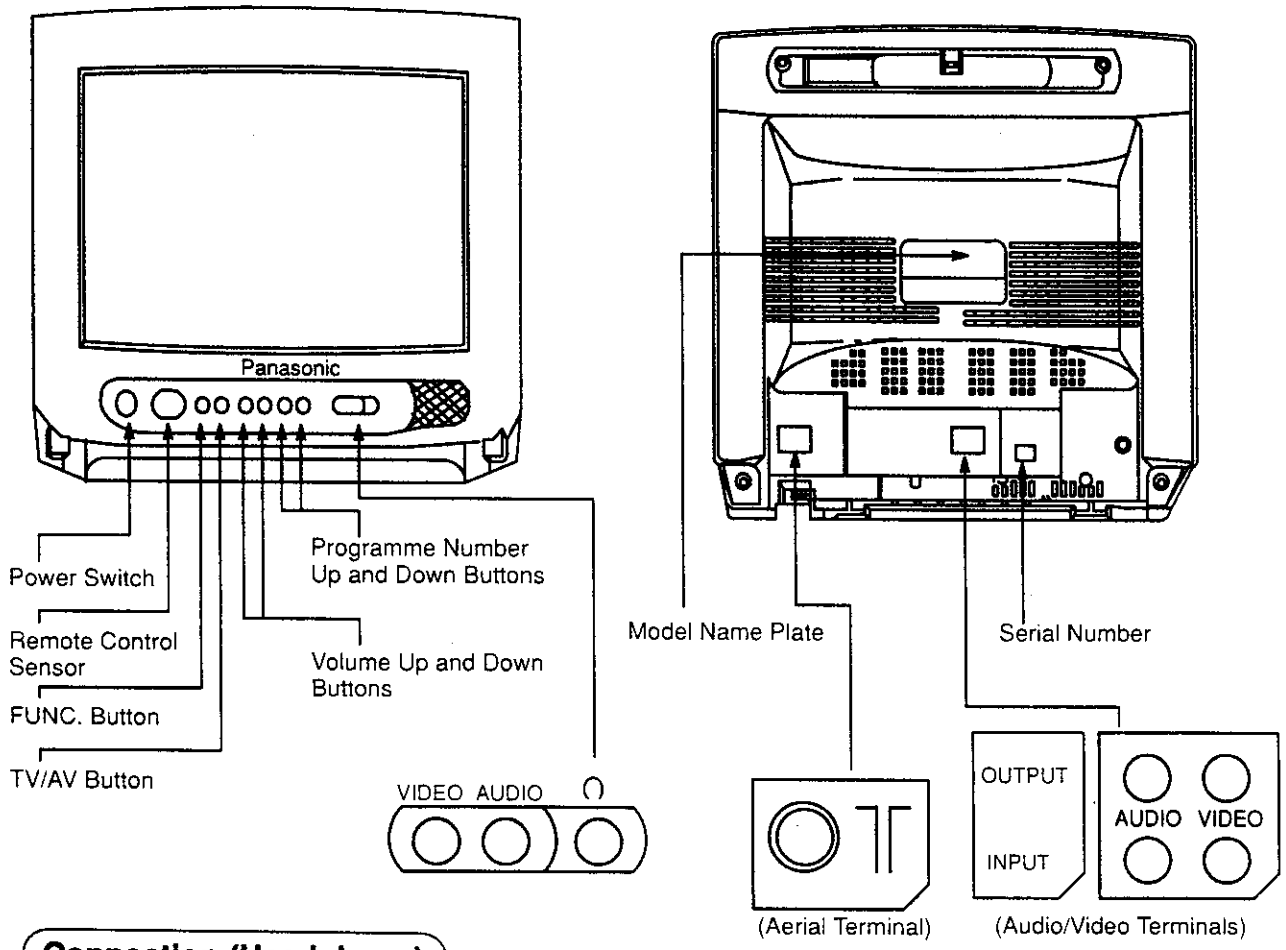
Please read the operating instructions completely before operating this set.

TQB4G0121Ⓐ

Dear Panasonic Customer

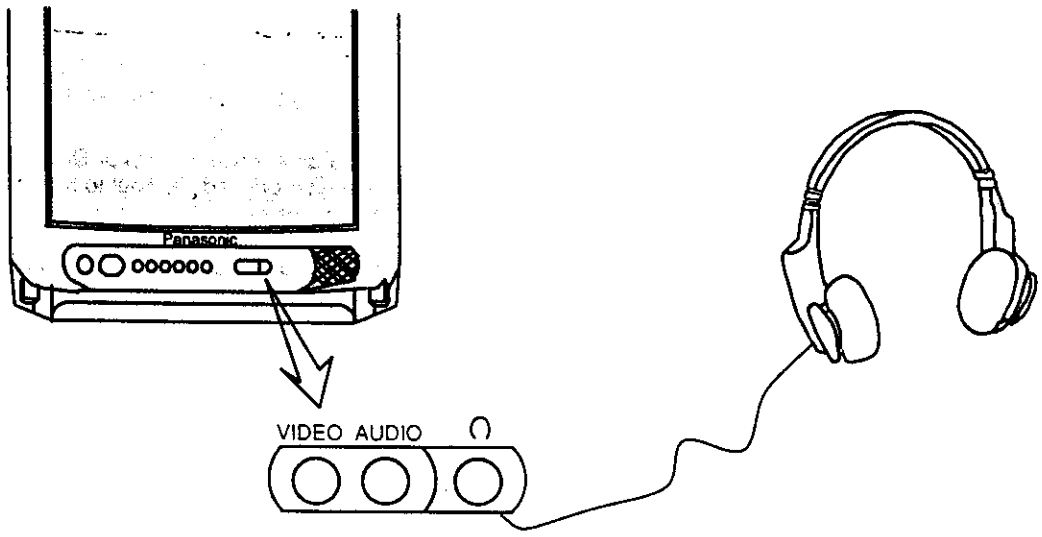
Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new colour television.

Location of Controls

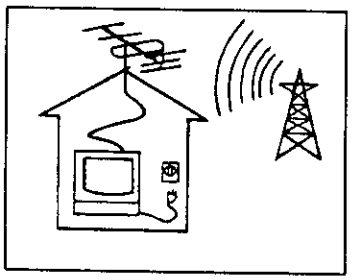


Connection (Headphone)

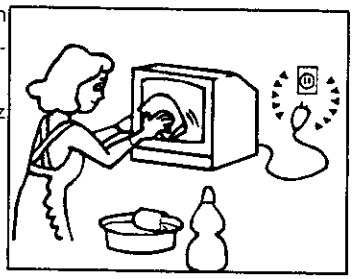
Plug the headphone jack as shown below :



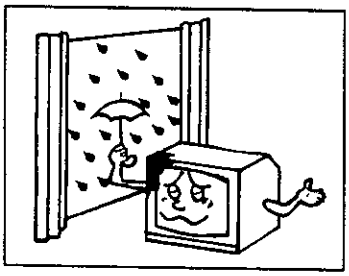
Safety Instructions



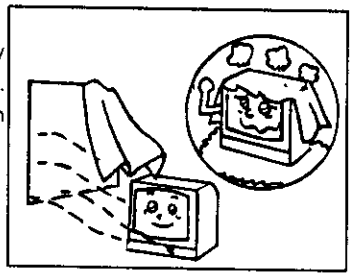
The TV set can be operated on AC 220~240 V, 50 Hz (Singapore). AC 240 V, 50 Hz (New Zealand) and AC 230 V, 50 Hz (New Zealand).



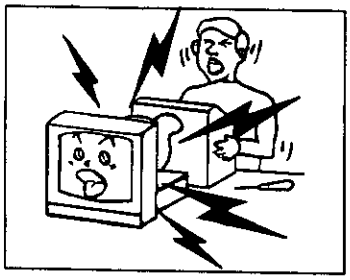
The cabinet and picture tube can be kept in good condition by simply wiping with a clean, soft cloth moistened with mild detergent and water. Do not use solutions containing benzol, petroleum or a chemical cloth. For safety, remove the plug from the wall outlet.



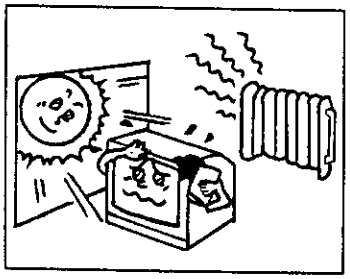
To prevent damage which may result in fire or electrical shock, do not expose the TV set to rain or excessive moisture.



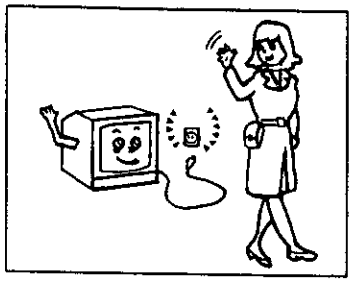
Adequate ventilation is essential to prevent failure of electrical components.



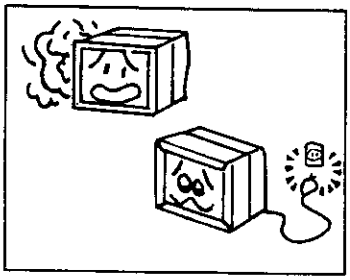
Do not remove the rear cover, as live parts are accessible when it is removed.



Avoid exposing the TV set to direct sunlight and other source of heat.



Remove the plug from the wall outlet (Power point) when the TV set is not used for a prolonged period of time.



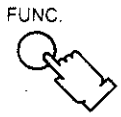
Do not use this set if abnormal operation occurs.
EX: smoke, odd sounds or smells, turn the power switch off and disconnect the AC power if you notice any unusual operation.

General Operations

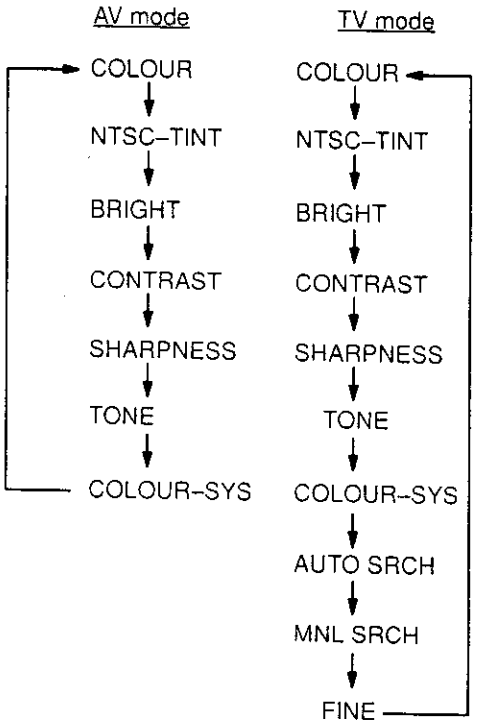
1. Power Switch

Press to switch on the TV set. To switch off press it again.

2. Function (FUNC.) Button



Press this button to display the functions listed below :



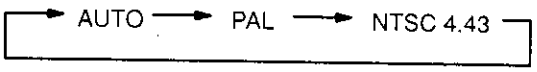
During above display, press the Voloume Up "+" or Down "–" buttons to adjust the level of COLOUR, NTSC–TINT, BRIGHT, CONTRAST, SHARPNESS and TONE.

Note :

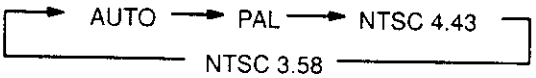
NTSC–TINT appear if NTSC 4.43 or NTSC 3.58 (AV mode only) is selected.
For AUTO SRCH, MNL SRCH and FINE please refer to page 6 and 7.

In COLOUR–SYS, the TV set is automatically set to the AUTO mode. Press the Volume Up button to change colour system as below :

TV mode



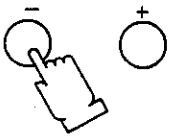
AV mode



3. TV/AV Selection Button

Press the TV/AV button to select either TV mode or AV mode.

4. Volume Up (+) and Down (–) Buttons



Press these buttons to adjust the sound level.

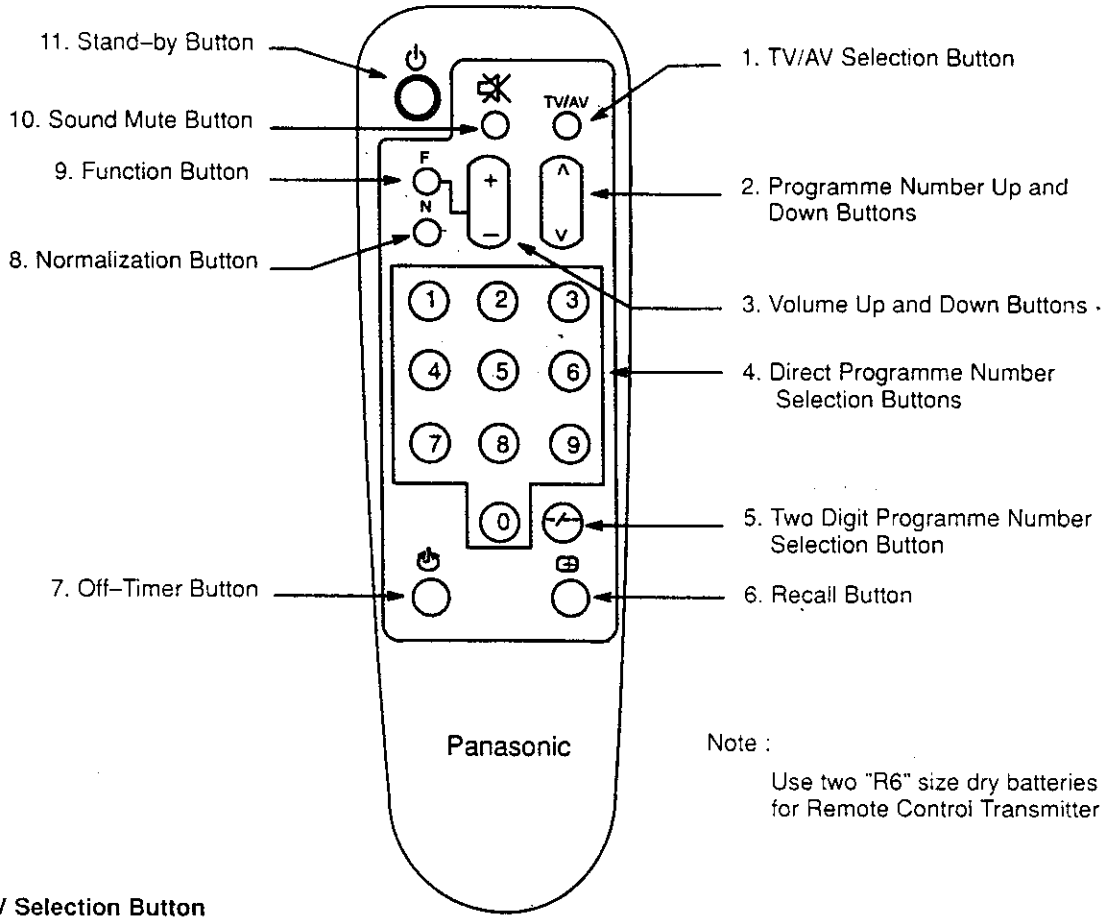
5. Programme Number Up and Down Buttons

Press these buttons to select the higher or lower Programme Number.

6. Video Input, Audio Input and Headphone Terminals

For the detail explanations, please refer to page 1, 9 and 10 .

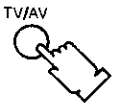
Remote Control Transmitter Operations



Note :

Use two "R6" size dry batteries for Remote Control Transmitter

1. TV/AV Selection Button

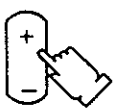


Press to select either TV mode or AV mode.

2. Programme Number Up and Down Buttons

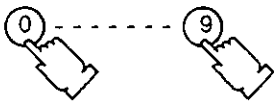
Press these buttons to select the higher or lower Programme Number.

3. Volume Up and Down Buttons



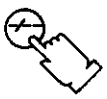
Press these buttons to adjust the sound level.

4. Direct Programme Number Selection Buttons



Press once to select Programme Number between 0 ~ 9.

5. Two Digit Programme Number Selection Button

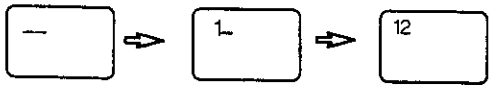


Press the button and follow by the required numbers to select Programme Number from 10 to 59.

Remote Control Transmitter Operations

e.g. To select Programme Number 12.

1. Press this button once.
2. Press button number " 1 ".
3. Press button number " 2 ".

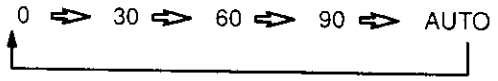


6. Recall Button

Press this button to display the current Programme Number, Colour System and Off–Timer.
In AV mode, a blue colour screen appears if there is no AV signal (when the recall function is off).

7. Off–Timer Button

The TV set can be preset to switch off after a fixed period of time by pressing this button.
The Off–time can be selected are as follows :

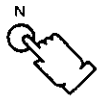


In Auto mode, if the TV set is not switched off, it will automatically go to stand–by condition 5 minutes after the TV station ends broadcasting.

How to cancel the off–timer setting :

1. Set the pre–set time condition to " 0 " mode by pressing the " off–timer " button or
2. switch off the TV set.

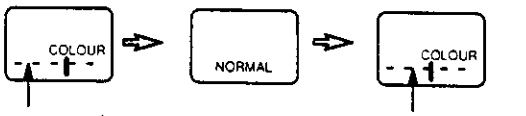
8. Normalization (N) Button



This button can be used for setting the Colour, Tint (NTSC only), Brightness, Contrast, Sharpness and Tone.

When this button is pressed, all functions setting are reset to the factory preset level (in yellow colour).

e.g. When this button is pressed after adjusting colour function.



green colour

yellow colour

9. Function (F) Button

Press this button to select the COLOUR, NTSC–TINT, BRIGHT, CONTRAST, SHARPNESS and TONE.
All functions can be adjusted by pressing the Volume Up and Down buttons.

Note :
NTSC–TINT will appear if NTSC 4.43 or NTSC 3.58 is selected.

10. Sound Mute Button

Press the button to mute the sound.

To cancel the mute mode :

a) Press this button again.
b) Press the Volume Up or Down buttons.

11. Stand–by Button

Press the button to switch the TV set off (in stand–by condition).

To switch ON again :

a. Press Stand–by button again or,
b. Press one of the Direct Programme Number Selection buttons (0~9), or
c. Press Programme Number Up or Down buttons

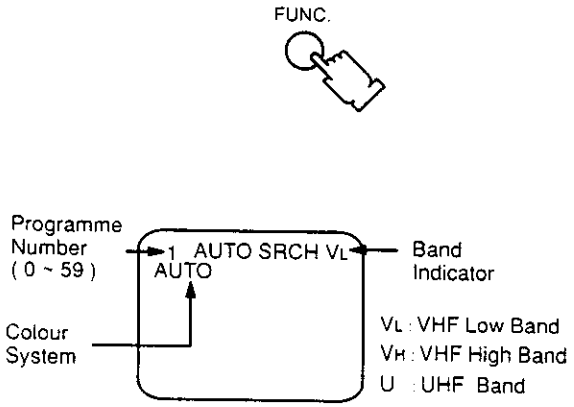
Note :
Do not leave your TV set on stand–by mode for a long period of time. It is better to switch it off when you are away.

Tuning Procedure

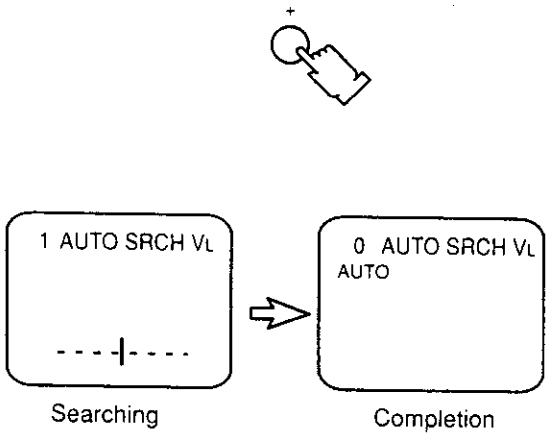
How to Tune in Your TV Set (Automatic Search)

1. Switch on your TV set.

2. Press the FUNCTION button until on-screen display appears as follows :



3. Press the Volume Up (+) button .
The on-screen display appears as shown :



The best tuning position is automatically memorized.

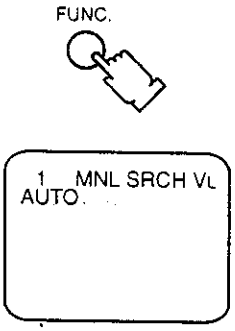
4. Press the FUNCTION button until COLOUR is displayed on the screen to return the TV set to the normal operating mode.
(On screen display of COLOUR will disappear after few seconds.)

A maximum of 60 Programme Numbers (0~59) can be programmed.

How to Tune in Your TV Set (Manual Search)

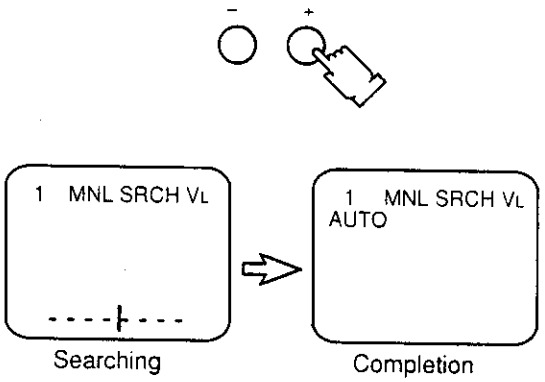
1. Switch on your TV set.

2. Press the FUNCTION button until the on-screen display appears as shown below :



Press either the Programme Number Up or Down buttons to select the desired Programme Number.

3. Press either the Volume Up or Down buttons, the TV station broadcasting on the next higher or lower frequency will be automatically tuned and memorized.



If an undesired TV station is received, press the same button again until the desired TV station is tuned.

4. Use the Programme Number Up or Down buttons to select the next desired channel to tune the TV station of your choice.

Repeat step 2 and 3 to tune all the available TV stations on the remaining Programme Number. Ensure that a new programme number is set (step 2) before tuning the next station.

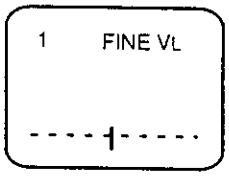
5. Press the FUNCTION button until COLOUR is displayed on the screen to return the TV set to the normal operating mode.
(On screen display of COLOUR will disappear after a few seconds.)

Fine Tuning Operation

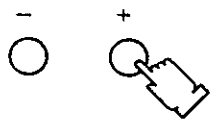
Under normal reception condition, this function is not used. However, in areas of poor reception or constant interference, a slight adjustment on the fine tuning can improve the picture and sound quality.

How to set the Fine Tuning Operation

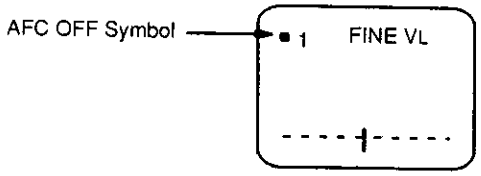
1. Press the FUNCTION button until on screen display appears as follow:



2. Press either the Volume Up or Down buttons continuously.



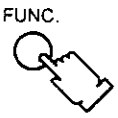
When the above fine tuning operation has been performed, the "■" symbol appear on the left of Programme Number.
The AFC function is deactivated.



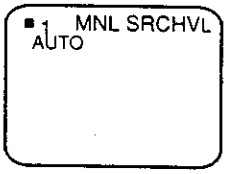
3. Press the FUNCTION button until COLOUR is displayed on the screen to return the TV set to the normal operating mode.

How to Cancel the Fine Tuning Operation

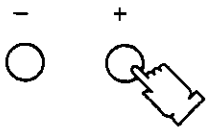
If you want to reset this Programme Number to the automatically tuned condition with the AFC activated, perform the following steps :



1. Press the FUNCTION button until on screen display appears as follow:



2. Press either the Volume Up or Down buttons.



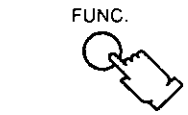
3. Press the FUNCTION button until COLOUR is displayed on the screen to return the TV set to the normal operating mode.

Skip Operation

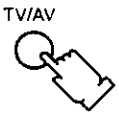
You can skip the unused or undesired Programme Number using the TV/AV function button.

How to set the Skip operation

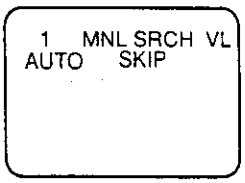
1. Press the FUNCTION botton until MNL SRCH is displayed on the screen as shown below:



2. Select the Programme Number which you want to skip.
3. Press the TV/AV button.



The on–screen display will appear as follows :

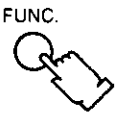


If more Programme Numbers are to be skipped, repeat step 2 and 3.

4. Press the FUNCTION button until "COLOUR" is displayed on the screen to return the TV set to the normal operating mode.

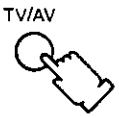
How to cancel the Skip operation

1. Press the FUNCTION botton until MNL SRCH is displayed on the screen as shown below:



2. Select the skipped Programme Number by using the Programme Number Up or Down buttons.

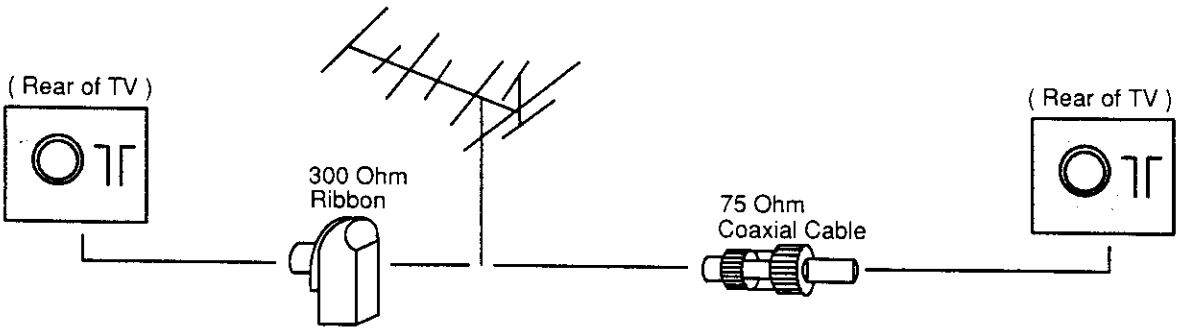
3. Press the TV/AV button .
If more Programme Numbers are to be cancelled, repeat step 2 and 3.



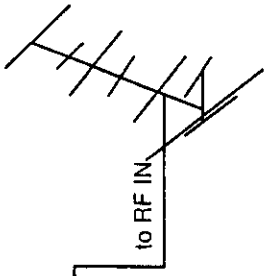
4. Press the FUNCTION button until "COLOUR" is displayed on the screen to return the TV set to the normal operating mode.

Antenna Connection

To obtain the best quality picture and sound, plug the connectors (300 Ohm Ribbon or 75 Ohm Coaxial Cable) to the antenna terminal on the rear of TV set.



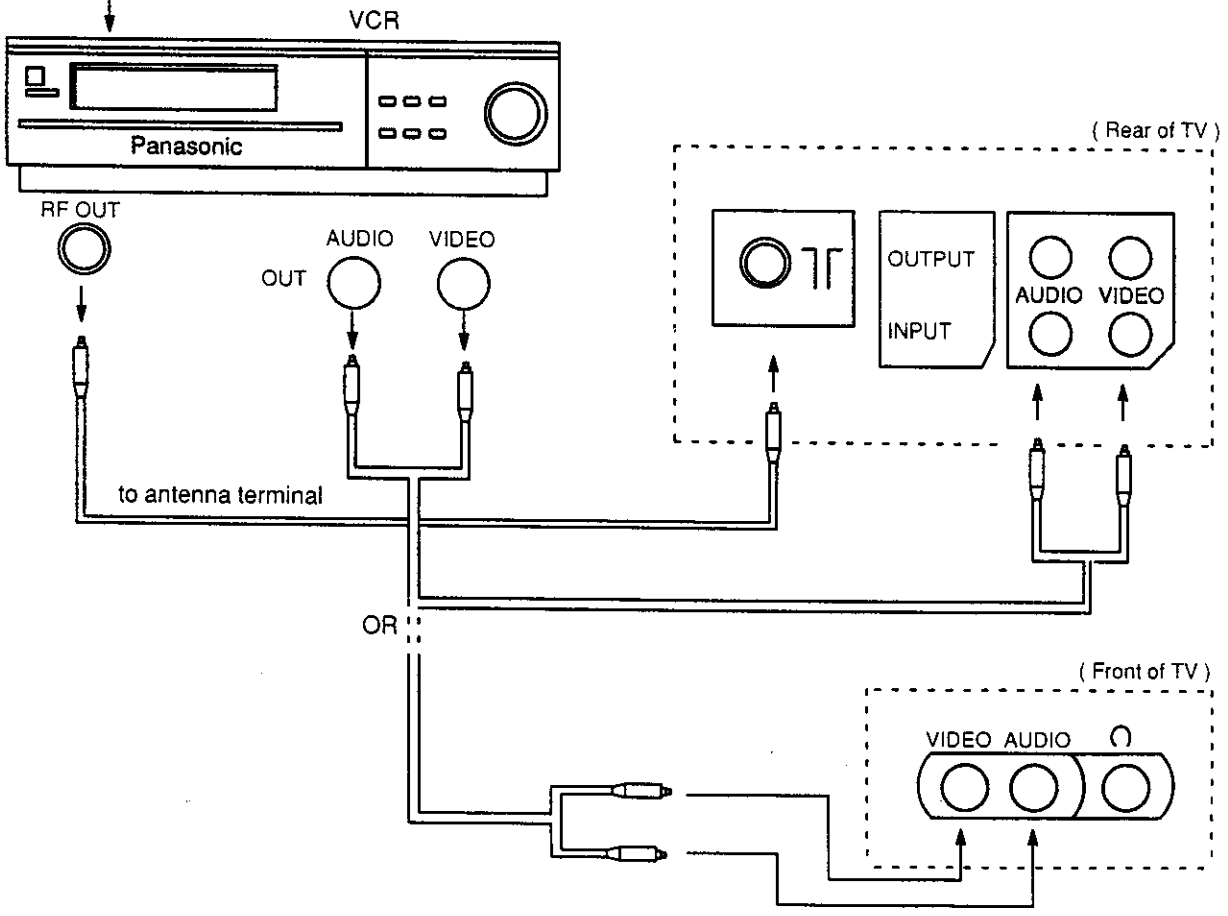
Connections (Audio Input and Video Input)



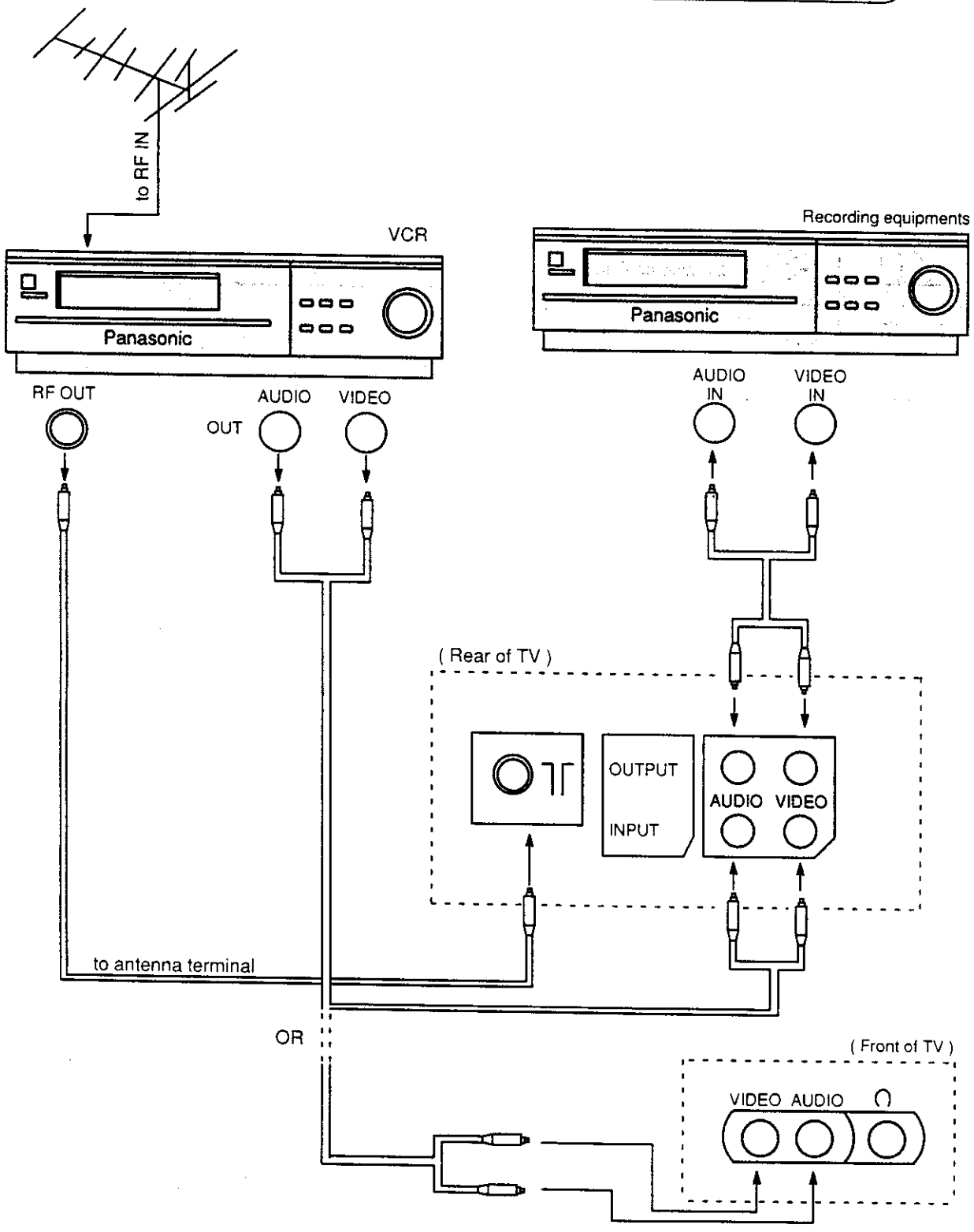
To watch the VCR picture :

Connect the VCR cable to the AUDIO INPUT and VIDEO INPUT terminals at the rear or front of TV.
Press the TV/AV selection button, set the VCR to the playback mode.
To watch or to return to the TV programme, press the TV/AV selection button again.

Note :
If both AV INPUT terminals are connected at the same time, only front AV INPUT terminals can operate.



Connections (Audio Input, Video Input, Audio Output and Video Output)



OUTPUT terminals contain signal which are on the TV screen at that time, e.g. TV programmes or signal from AV input.

Note :
If both AV INPUT terminals are connected at the same time, only front AV INPUT terminals can operate.

Troubleshooting

Before calling for service, determine the symptoms and make a few simple checks as shown below.

Picture	Sound	Countermeasure
		Aerial location, direction connection
		Aerial location, direction connection
		Electrical Appliances Cars / Motorcyles Flourescent Lamps
		Check whether the mute function has been activated on the remote control.
		Colour Control

		Not plugged into AC outlet. Not switched on. Contrast and Brightness/Volume Setting (check by pushing the Power Switch or Stand–by button on remote control).
		Re–tune Channels
		Magnetic inteference from unshielded equipment. Receiver moved while "ON".
		System Button

Specifications

TC–14S10M, TC–14S10A	TC–21S10M
Power Source : AC 220~240 V, 50 Hz (Singapore) AC 230 V, 50 Hz (New Zealand) AC 240 V, 50 Hz (Australia)	Power Source : AC 220~240 V, 50 Hz (Singapore) AC 230 V, 50 Hz (New Zealand)
Power Consumption : 67 W	Power Consumption : 82 W
Picture Tube : 36 cm (Singapore Standard) 34 cm (Australian and New Zealand Standard) measured diagonally, 90° deflection	Picture Tube : 54 cm (Singapore Standard) 51 cm (New Zealand Standard) measured diagonally, 90° deflection
Audio Output : 3 W	Audio Output : 3 W
Dimension (W x D x H) : 389 x 380 x 358 mm	Dimension (W x D x H) : 518 x 478 x 477 mm
Weight : 9.6 Kg (Net)	Weight : 21.0 Kg (Net)
Receiving System : PAL (B, G) PAL 60Hz (Not mentioned on–screen) NTSC 4.43 NTSC 3.58 (VTR playback only)	Receiving System : PAL (B, G) PAL 60Hz (Not mentioned on–screen) NTSC 4.43 NTSC 3.58 (VTR playback only)
Receiving Channels : VHF 1 – 11 (New Zealand) VHF 2 – 12 (Singapore) VHF 0 – 11 (Australia) UHF 21 – 69 (New Zealand, Singapore) UHF 28 – 69 (Australia) CATV S1 – S41 (HYPER)	Receiving Channels : VHF 1 – 11 (New Zealand) VHF 2 – 12 (Singapore) UHF 21 – 69 (New Zealand, Singapore) CATV S1 – S41 (HYPER)

Note :

Design and Specifications are subject to change without notice.

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